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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,466	07/18/2003	Gary S. Dixon	976626-100/001	2973
29484 PATENTMETI	7590 07/09/200 RIX		EXAMINER	
	R DR. BOX 914		CHENG, JACQUELINE	
IRVINE, CA 92604			ART UNIT	PAPER NUMBER
			3768	
			NOTIFICATION DATE	DELIVERY MODE
			07/09/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

	Application No.	Applicant(s)
	10/623,466	DIXON ET AL.
Office Action Summary	Examiner	Art Unit
	JACQUELINE CHENG	3768
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory of Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 10 to 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 43-61 is/are pending in the application 4a) Of the above claim(s) is/are withdrage 5) Claim(s) is/are allowed. 6) Claim(s) 43-61 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examin	awn from consideration. for election requirement. ner.	
10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 44-47, 51-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lang (US 2003/0015208 A1) in view of Faulkner (US 6,740,041 B2).
- 3. Claims 44, 45, 51-58: Lang teaches a method to diagnose treat and prevent bone loss. In Lang a bone characteristic level such as bone mineral density is measured and therapy is prescribed based on the bone mineral density (abstract, paragraph 0030). Repeat measurements of the bone characteristic is taken over a period of time, which can be seconds, minutes, hours, days, months, or any interval there between (paragraph 0067). Lang does not explicitly disclose using a T-score as a measure of the bone mineral density, however it is well known in the art as disclosed by Faulkner that a raw bone mineral density value has limited meaning to a physician (col. 1 line 27-35) so it is obvious to provide an established reference such as a T-score to make the raw bone mineral density value of Lang useful. If the measurements of Lang results in a normal T-score, then a therapy such as a postponement of development of bone loss symptom can be prescribed such as taking a calcium supplement (paragraph 0023).

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4. **Claims 46, 47, 59-61:** These claims are rejected under Lang as well as according to broadest reasonable interpretation there is no measuring of a gait characterization or bone marker concentration so therefore these steps therefore are not required.

5. Claims 48-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lang in view of Faulkner, and further in view of Chaintreuil (US 6,234,969 B1). Chaintreuil discloses a bone densitometer having a housing for a foot in which a pair of ultrasonic transducers engages the heel at a controlled pressure. The ultrasonic waves that are detected are the used to calculate an quantitative ultrasound index, or a stiffness value (fig. 1, col. 4 line 14-61). It would be obvious to one with ordinary skill in the art at the time of the invention to combine Chaintreuil with Lang as Lang discloses using ultrasound measurements for the imaging test.

Conclusion

- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JACQUELINE CHENG whose telephone number is (571)272-5596. The examiner can normally be reached on M-F 10:00-6:30.
- 7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brian L Casler/ Supervisory Patent Examiner, Art Unit 3737

JC